

Serial No. 10/673,690
Amendment Dated July 30, 2004
Reply to Office Action of July 7, 2004

Amendments to the Specification:

Please replace the paragraph from page 2, line 22-30 with the following amended paragraph:

The fitting member also includes an inner tube having a neck portion, a first shoulder extending from the neck portion, a second shoulder extending from the first shoulder and a sleeve extending from the second shoulder, which defines a tube body. The second shoulder has a diameter sized to engage with the clamp head of the outer ~~tuber~~ tube. The first shoulder has a diameter greater than the diameter of the second shoulder so as to form a first step at the junction of the first shoulder and the second shoulder for limiting the axial motion of the clamp head. And the tube body has an inner diameter, d_0 , and is sized to receive a free end of the electrically conductive member of the coaxial cable therethrough.

Please replace the paragraph from page 10, line 23-31, to page 11, lines 1-5, with the following amended paragraph:

Referring now to Figs. 2 and 3, a fitting member 200 is assembled according to one embodiment. The shoulder 222 of the inner tube 220 is tightly fitted with an inner surface of the neck portion 231 of the outer tube 230. The outer tube 230 is fitted into the connector body ~~110~~ 210 from the first end 214 of the connector body ~~110~~ 210 such that the bulge 234 of the outer tube 230 is received in and engaged with the groove 212 of the connector body 210. The clamp ring 241 of the connector head 240 is loosely fitted to an outer surface of the neck portion 231 of the outer tube 230 so that the connector head 240 is rotatable around an axis of the outer tube 230. The sealing member 260, such as an O-ring, is positioned on the clamp head 221 of the inner tube 220 such that when the fitting member 200 is connected to the second electrically conductive member such as a proper component of the coaxial cable 300, the sealing member 260 seals moisture and dusts off the electrically conductive members. The sleeve tube 250 is inserted into the connector body 210 and positioned between the end of the sleeve 233 of the

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outer tube 130 230 and the first diameter d_1 D_1 of the conical portion 213 of the connector body 210.

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-7. (Canceled).

8. (Currently amended): A fitting member for connecting a coaxial cable having an electrically conductive member to a second electrically conductive member, comprising:
- a. a connector body having a first end, an opposite second end, a cylindrical body defined between the first end and the second end, and an annular recess formed on an outer surface of the cylindrical body proximate to the second end;
 - b. an outer tube having a first end and an opposite second end defining a body therebetween and a clamp head inwardly projecting away from the first end, wherein the body has an outer diameter, d_1 , and is sized to fit into the first end of the connector body by the second end of the outer tube;
 - c. an inner tube having a neck portion, a first shoulder extending from the neck portion, a second shoulder extending from the first shoulder and a sleeve extending from the second shoulder defining a tube body, wherein the second shoulder has a diameter sized to engage with the clamp head of the outer tube, and the first shoulder has a diameter greater than the diameter of the second shoulder so as to form a first step at the junction of the first shoulder and the second shoulder for limiting the axial motion of the clamp head, and the tube body has an inner diameter, d_0 , and is sized to receive a free end of the electrically conductive member of the coaxial cable therethrough; and

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d. a sleeve tube insertable into the connector body for holding the coaxial cable.

~~The fitting member of claim 1,~~ wherein the inner tube further comprises a flange outwardly projecting away from the junction of the neck portion and the first shoulder, the flange having a diameter greater than either of the diameter of the first shoulder and a diameter of the neck portion so as to form a second step at the junction of the first shoulder and the flange for limiting the axial motion of the clamp ring of the connector head, and a third step at the junction of the flange and the neck portion for partially receiving the first sealing member.

9. (Currently amended): A fitting member for connecting a coaxial cable having an electrically conductive member to a second electrically conductive member, comprising:

- a. a connector body having a first end, an opposite second end, a cylindrical body defined between the first end and the second end, and an annular recess formed on an outer surface of the cylindrical body proximate to the second end;
- b. an outer tube having a first end and an opposite second end defining a body therebetween and a clamp head inwardly projecting away from the first end, wherein the body has an outer diameter, d_1 , and is sized to fit into the first end of the connector body by the second end of the outer tube;
- c. an inner tube having a neck portion, a first shoulder extending from the neck portion, a second shoulder extending from the first shoulder and a sleeve extending from the second shoulder defining a tube body, wherein the second shoulder has a diameter sized to engage with the clamp head of the outer tube, and the first shoulder has a diameter greater than the diameter of the second shoulder so as to form a first step at the junction of the first shoulder and the second shoulder for limiting the axial motion of the clamp head, and the tube body has an inner diameter, d_0 , and is sized to receive a free end of the electrically conductive member of the coaxial cable therethrough; and
- d. a sleeve tube insertable into the connector body for holding the coaxial cable.

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~~The fitting member of claim 1~~, wherein the sleeve tube comprises a sleeve body, a sleeve tip and a plurality of annular serrations sequentially formed on an inner surface thereof.

10. (Original): The fitting member of claim 9, wherein the sleeve tube is made of plastic.
- 11-17. (Canceled).
18. (Currently amended): A fitting member for connecting a coaxial cable having an electrically conductive member to a second electrically conductive member, comprising:
- a. a connector body having a first end, an opposite second end, a cylindrical body defined between the first end and the second end, and an annular groove formed on an inner surface of the cylindrical body and proximate to the first end;
 - b. an outer tube having a cylindrical body, wherein the cylindrical body has an inner diameter sized to receive a free end of the coaxial cable therein and an outer diameter, D_1 , and is sized to fit into the interior space defined by the cylindrical body of the connector body, a neck portion extending from the cylindrical body, and an annular bulge outwardly projecting away from an outer surface of the cylindrical body at a predetermined position such that when the outer tube is inserted into the connector body from the first end, the bulge is received in and engaged with the groove of the connector body so as to limit the relative axial motion of the connector body and the outer tube; and
 - c. a sleeve tube insertable into the connector body for holding the coaxial cable,
- ~~The fitting member of claim 11~~, wherein the sleeve tube comprises a sleeve body, a sleeve tip and a plurality of annular bulges sequentially formed on an inner surface thereof.
19. (Original): The fitting member of claim 18, wherein the sleeve tube is made of plastic.
20. (Original): A fitting member for connecting a coaxial cable having an electrically conductive member to a second electrically conductive member, comprising:

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- a. a connector body;
 - b. an outer tube mounted to the connector body;
 - c. an inner tube having a tube body for receiving a free end of the electrically conductive member of the coaxial cable therethrough, wherein the tube body comprises a neck portion, a flange extending from the neck portion, a first shoulder extending from the flange, a second shoulder extending from the first shoulder for engaging with the outer tube, a first step formed at the junction of the second shoulder and the first shoulder so as to limit the axial motion of the outer tube, a second step formed at the junction of the first shoulder and the flange, and a third step formed at the junction of flange and the neck portion; and
 - d. a sleeve tube insertable into the connector body for holding the coaxial cable.
21. (Original): The fitting member of claim 20, further comprising a sealing member that is at least partially received by the third step and the neck portion.